AMENDMENTS TO THE CLAIMS

1. (currently amended) An electrosurgical instrument, comprising:

a hand piece configured to receive radio frequency energy from an electrosurgical generator; and

a conductive tip adapted to receive the radio frequency energy from the hand piece, the conductive tip comprising, on at least a portion of the tip, a coating comprising a multi-character material providing a low shear, sacrificial layer to the tip that comprises a copolymer of a hydrophobic monomer, polymer, or material and a hydrophilic monomer, polymer, or material.

 $b^{\mathcal{V}}$

- 2. (original) An electrosurgical instrument as recited in claim 1, wherein the coating further comprises a base material interposed between at least a portion of the multi-character material and a surface of the tip.
- 3. (original) An electrosurgical instrument as recited in claim 2, wherein the coating further includes an etching agent.
- 4. (original) An electrosurgical instrument as recited in claim 2, wherein the base material forms a continuous coating layer on at least a portion of the tip.

5. (original) An electrosurgical instrument as recited in claim 4, wherein the base material includes one or more pores therein and the multi-character material occupies at least a portion of the pores.

6. (cancelled)

- 7. (original) An electrosurgical instrument as recited in claim 2, wherein the base material comprises at least one of:
 - (i) a fluoropolymer;

3,0k

- (ii) a silicone;
- (iii) a ceramic;
- (iv) an aromatic hydrocarbon;
- (v) an aromatic fluorocarbon; or
- (vi) a porous metal.
- 8. (currently amended) An electrosurgical instrument as recited in claim 1, wherein the multi-character material coating further comprises a water-soluble polymer comprising at least one of:
 - (i) polyethylene oxide;
 - (ii) polyethylene glycol; or
 - (iii) a copolymer of ethylene oxide.

- 9. (currently amended) An electrosurgical instrument as recited in claim 1 [[8]], wherein the water-soluble polymer coating further comprises at least one of a water soluble hetero atom polymer, a water soluble acrylate polymer, a water soluble acrylate polymer, a water soluble vinyl polymer, and a water soluble natural polymer.
- 10. (previously presented) An electrosurgical instrument as recited in claim 1, wherein the coating further includes a radical scavenger to reduce damage to the coating during a process of gamma sterilization.

11. (cancelled)

- 12. (previously presented) An electrosurgical instrument as recited in claim 8, wherein the water-soluble polymer is a carrier that provides a factor on a contact area of a patient's body during the electrosurgical procedure.
- 13. (original) An electrosurgical instrument as recited in claim 12, wherein the factor includes at least one of:
 - (i) an antibiotic factor;
 - (ii) a healing factor;
 - (iii) an anti-adhesion factor;
 - (iv) an anti-tumor factor;
 - (v) a tumor necrosis factor; or
 - (vi) a clotting factor.

- 14. (currently amended) An electrosurgical instrument as recited in claim $\underline{1}$ [[8]], wherein the water-soluble polymer coating provides the \underline{a} low shear, sacrificial layer to the tip.
- 15. (original) An electrosurgical instrument as recited in claim 1, wherein the tip includes a porous metal.
- 16. (original) An electrosurgical instrument as recited in claim 1, wherein the multicharacter material includes a charged unit.

17. (currently amended) A tip adapted for use in performing an electrosurgical procedure, the tip comprising:

a prepared surface; and

a coating applied to at least a portion of the prepared surface, wherein the coating includes a multi-character material providing a low shear, sacrificial layer to the tip, the multi-character material comprising a copolymer of a hydrophobic monomer, polymer, or material and a hydrophilic monomer, polymer, or material.

- 18. (original) A tip as recited in claim 17, wherein the prepared surface is a substrate that comprises a porous metal.
- 19. (original) A tip as recited in claim 17, wherein the prepared surface is a substrate that comprises a roughened metal.

20. (original) A tip as recited in claim 17, wherein the prepared surface is a substrate that comprises surgical stainless steel.

21. (cancelled)

22. (original) A tip as recited in claim 17, wherein the coating further comprises a base material.

Bay,

- 23. (original) A tip as recited in claim 22, wherein the base material comprises a fluoropolymer.
- 24. (original) A tip as recited in claim 22, wherein the multi-character material comprises a radical scavenger that reduces damage to the coating during a process of gamma sterilization.

25. (cancelled)

26. (original) A tip as recited in claim 17, wherein the multi-character material comprises a charged unit.

- 27. (original) A tip as recited in claim 17, wherein the multi-character material comprises a carrier that provides a factor to the contact area of a patient during an electrosurgical procedure.
 - 28. (original) A tip as recited in claim 27, wherein the factor comprises at least one of:
 - (i) an antibiotic factor;
 - (ii) a healing factor;
 - an anti-adhesion factor; (iii)
 - (iv) an anti-tumor factor;
 - a tumor necrosis factor; or (v)
 - a clotting factor. (vi)
- 29. (currently amended) A method for coating a tip of an electrosurgical instrument, the method comprising:

preparing a surface of an electrosurgical tip to be coated; and

applying a base material coating over the surface, the base material coating comprising one or more pores; and

applying a multi-character material coating layer over the base material coating on the surface such that the multi-character material provides a low shear, sacrificial layer to the tip, wherein the multi-character material is applied by using a process of electrophoresis to draw the multi-character material into at least a portion of the pores, wherein the combination of the multi-character material and the base material coating form a first layer about at least a portion of the tip.

- 30. (cancelled)
- 31. (cancelled)
- 32. (cancelled)
- 33. (currently amended) A method as recited in claim <u>29</u> [[32]], wherein the multicharacter material comprises a charged unit.

34. (currently amended) A method as recited in claim $\frac{29}{100}$ [[32]], wherein the base material comprises a fluoropolymer.

- 35. (currently amended) A method as recited in claim 29 [[32]], further comprising applying a coating layer onto the first layer, wherein the coating layer includes a hydrophilic material.
 - 36. (cancelled)
- 37. (currently amended) A method as recited in claim <u>29</u> [[36]], wherein the multicharacter material coating layer comprises an <u>amphophilic</u> <u>amphiphilic</u> material with molecular chains having a hydrophobic characteristic and a hydrophilic characteristic, and wherein the hydrophilic characteristic comprises at least one of:

- (i) polyethylene oxide;
- (ii) polyethylene glycol; or
- (iii) a copolymer of ethylene oxide.
- 38. (previously presented) A method as recited in claim 37, wherein the hydrophobic characteristic comprises at least one of:
 - (i) polypropylene oxide;
 - (ii) a fluorocarbon; or
 - (iii) a hydrocarbon.

Ally,

39. (cancelled)

40. (currently amended) A tip for use in performing an electrosurgical procedure, the tip comprising:

a prepared surface; and

a coating over at least a portion of the prepared surface, wherein the coating includes a multi-character material comprising an amphophilic material with molecular chains having a hydrophilic characteristic and a hydrophobic characteristic a copolymer of a hydrophobic monomer, polymer, or material and a hydrophilic monomer, polymer, or material.

41. (previously presented) A tip as recited in claim 40, further comprising a coating layer over the coating, the coating layer including a hydrophilic material.

42. (cancelled)

43. (currently amended) A method for coating a tip of an electrosurgical instrument, the method comprising:

preparing a surface of an electrosurgical tip to be coated; and

applying a multi-character material coating layer over the surface, the multi-character material coating layer comprising an amphophilic material with molecular chains having a hydrophilic characteristic and a hydrophobic characteristic a copolymer of a hydrophobic monomer, polymer, or material and a hydrophilic monomer, polymer, or material.

Pry

44. (previously presented) A method for coating a tip of an electrosurgical instrument, the method comprising:

preparing a surface of an electrosurgical tip to be coated;

applying a base material coating layer over the surface, the base material coating layer comprising one or more pores; and

applying a multi-character material coating layer over the base material coating layer by using a process of electrophoresis to draw a multi-character material into at least a portion of the pores, wherein the combination of the multi-character material and a base material of the base material coating layer form a first layer about at least a portion of the tip.

- 45. (previously presented) A method as recited in claim 44, wherein the multi-character material comprises a charged unit.
- 46. (previously presented) A method as recited in claim 44, wherein the base material comprises a fluoropolymer.
 - 47. (previously presented) A method as recited in claim 44, further comprising applying a coating layer over the first layer, wherein the coating layer includes a hydrophilic material.